ASSIGNMENT 4

Team Batch No: B6-M2E

TEAM MEMBERS

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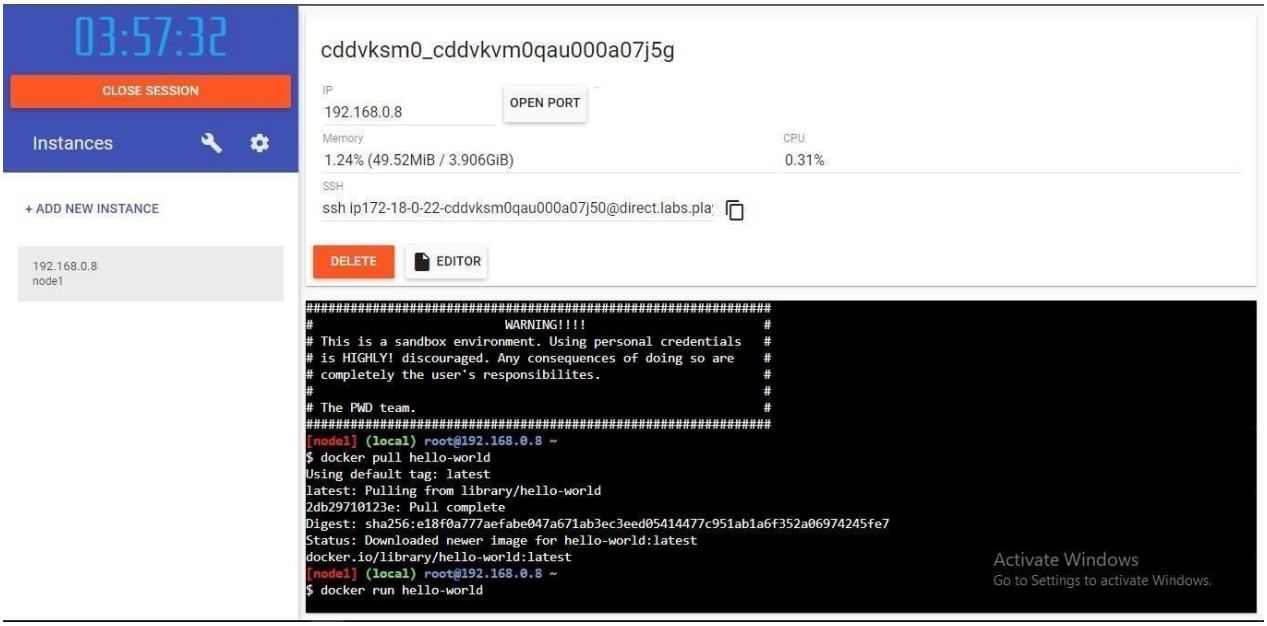
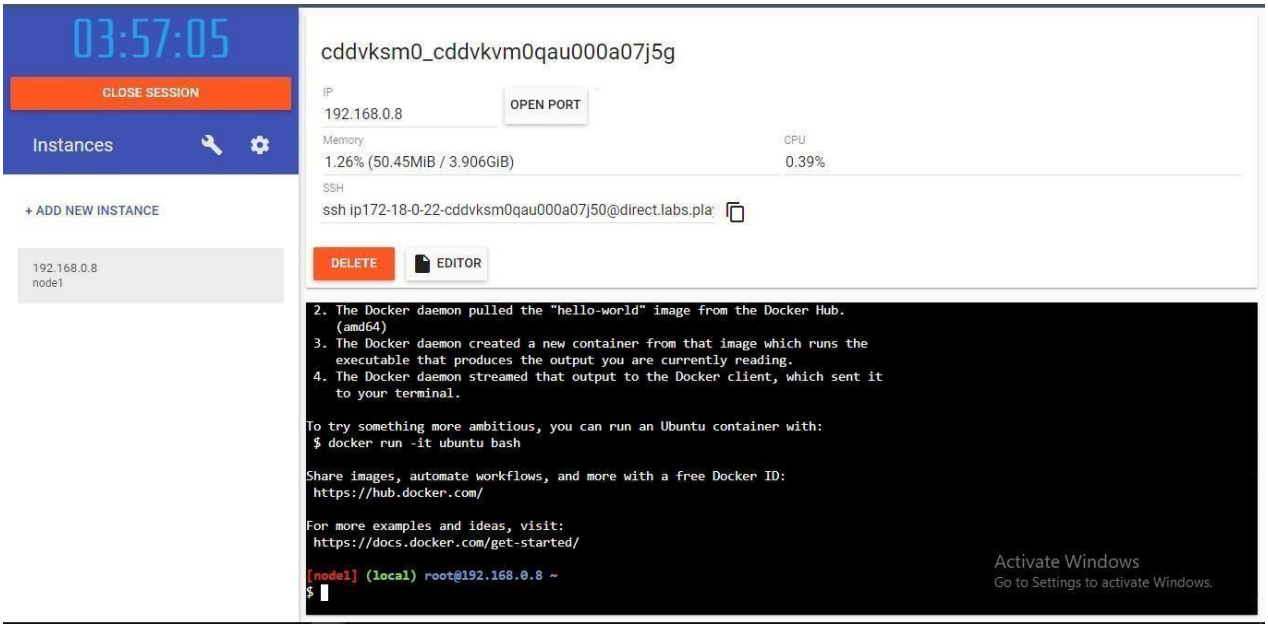
TEAM ID: **PNT2022TMID12569**

Question 1:

Pull an image from docker hub and run it in docker playground.





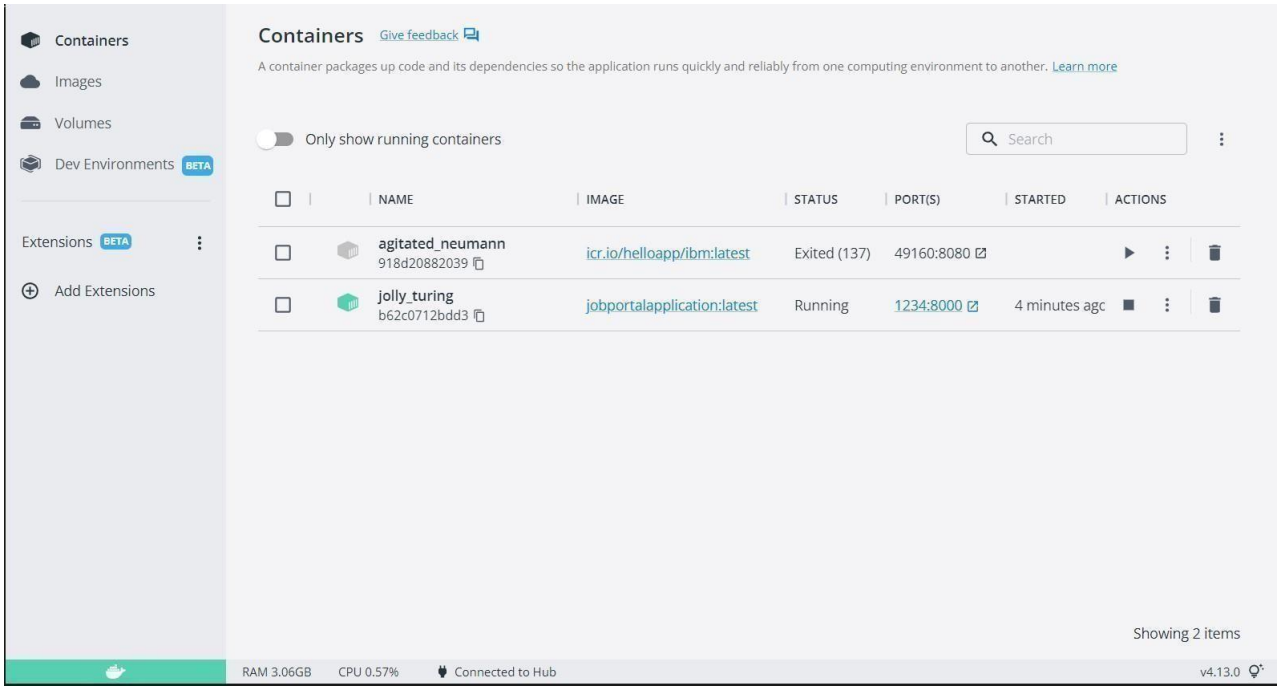
Question 2:

Create a docker file for the jobportal application and deploy it in Docker desktop application.

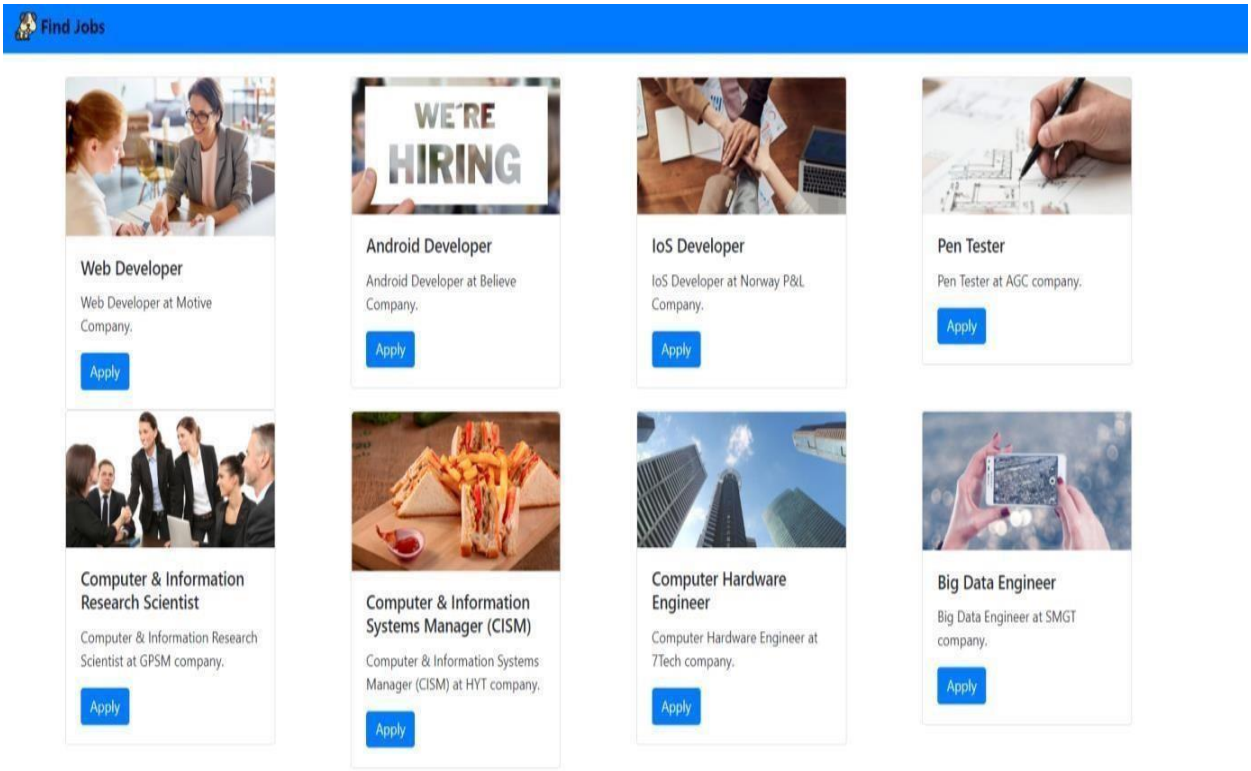
DOCKERFILE:

```
FROM python:3.8-buster

WORKDIR /app

COPY requirements.txt /app/

RUN pip install -r requirements.txt

COPY . /app/

RUN cp .env.dev.sample .env

EXPOSE 8000

RUN chmod +x entrypoint.sh

CMD ["sh", "entrypoint.sh"]
```

DEPLOYMENT OF JOBPORTAL APPLICATION:


Containers
Images
Volumes
Dev Environments BETA
Extensions BETA
Add Extensions
Containers
Give feedback
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more
Only show running containers
Search
NAME
IMAGE
STATUS
PORT(S)
STARTED
ACTIONS
agitated_neumann
918d20882039
icr.io/helloapp/ibm:latest
Exited (137)
49160:8080
jolly_turing
b62c0712bdd3
jobportalapplication:latest
Running
1234:8000
4 minutes ago
Showing 2 items
RAM 3.06GB
CPU 0.57%
Connected to Hub
v4.13.0

OUTPUT:

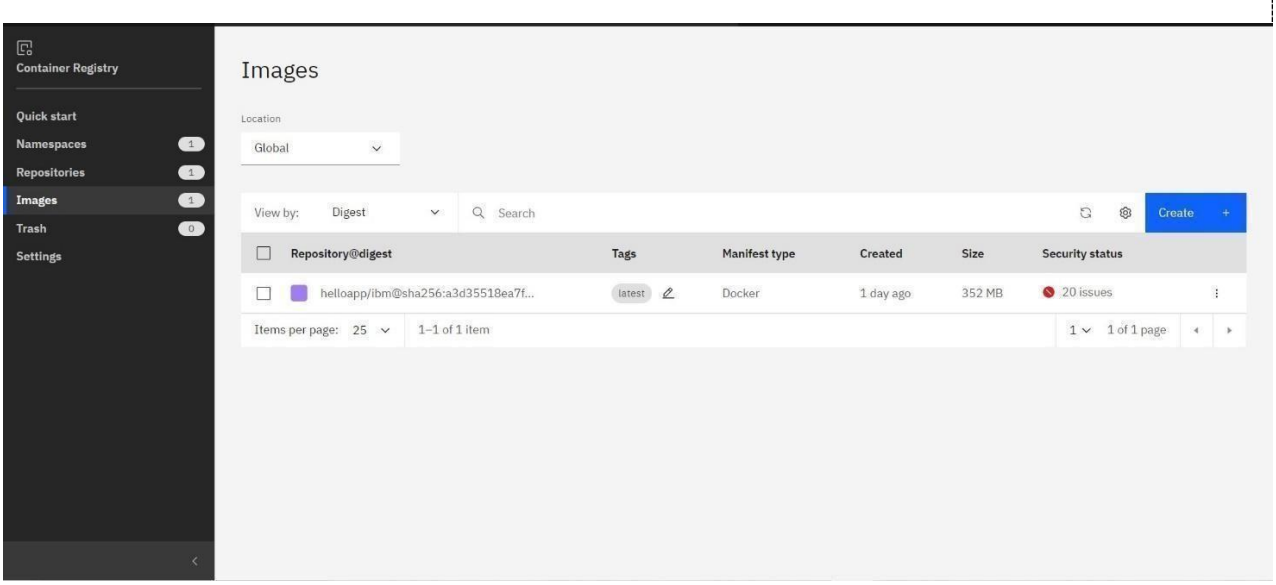


Question 3:

Create a IBM container registry and deploy helloworld app or

jobportapp. IBM CONTAINER REGISTRY

DEPLOYMENT:


Container Registry
Quick start
Namespaces 1
Repositories 1
Images 1
Trash 0
Settings
Images
Location
Global
View by: Digest
Search
Create
Repository@digest
Tags
Manifest type
Created
Size
Security status
helloapp/ibm@sha256:a3d35518ea7f...
latest
Docker
1 day ago
352 MB
20 issues
Items per page: 25
1–1 of 1 item
1 of 1 page

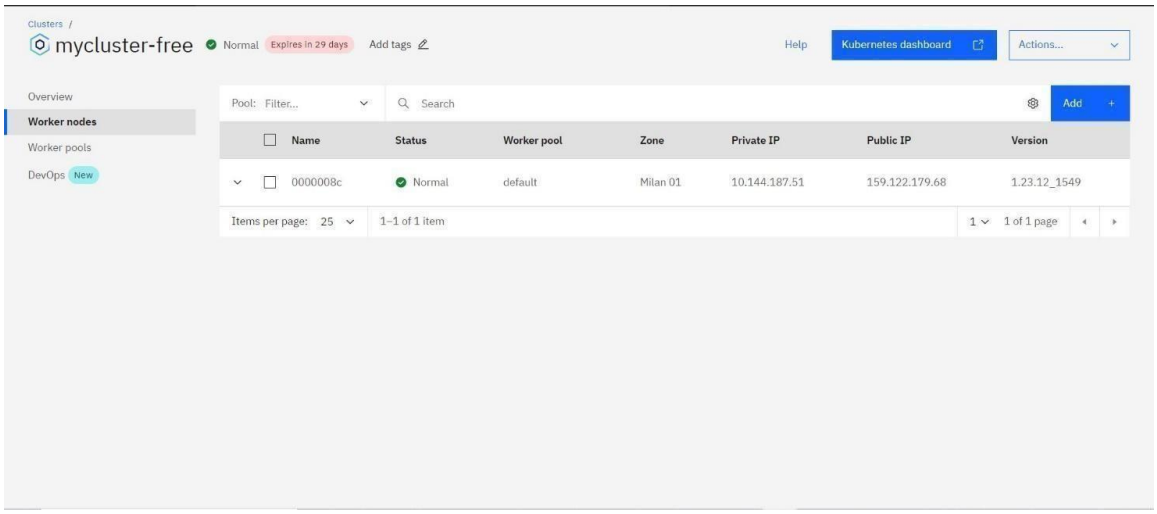
OUTPUT:


localhost:49160
localhost:49160
Guest
Hello World

Question 4:

Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

CREATING KUBERNETES CLUSTER IN IBM CLOUD AND EXPOSING NODEPORT:



OUTPUT:

Find Jobs

Web Developer

Web Developer at Motive Company.

Apply

Android Developer

Android Developer at Believe Company.

Apply

IoS Developer

IoS Developer at Norway P&L Company.

Apply

Pen Tester

Pen Tester at AGC company.

Apply

Computer & Information Research Scientist

Computer & Information Research Scientist at GPSM company.

Apply

Computer & Information Systems Manager (CISM)

Computer & Information Systems Manager (CISM) at HYT company.

Apply

Computer Hardware Engineer

Computer Hardware Engineer at 7Tech company.

Apply

Big Data Engineer

Big Data Engineer at SMGT company.

Apply